

Panasonic Support for Changes to H-Block & UPCS Band Rules

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- Service Rules for Advanced Wireless Services in the 2155-2175 MHz Band (WT Docket No. 07-195)
- Service Rules for Advanced Wireless Services in the 1915-1920 MHz, 1995-2000 MHz, 2020-2025 MHz and 2175-2180 MHz Bands (WT Docket No. 04-356)
- DECT Forum Petition to Modify the Service Rules for the UPCS Band 1920- 1930 MHz (RM-11485)

Overview

- Changes to UPCS Band rules & H-Block emission limits are needed to:
 - Protect consumers using DECT 6.0 Cordless Phones from proposed adjacent H-Block emissions
 - Permit Broadband connectivity in the UPCS band & product innovation



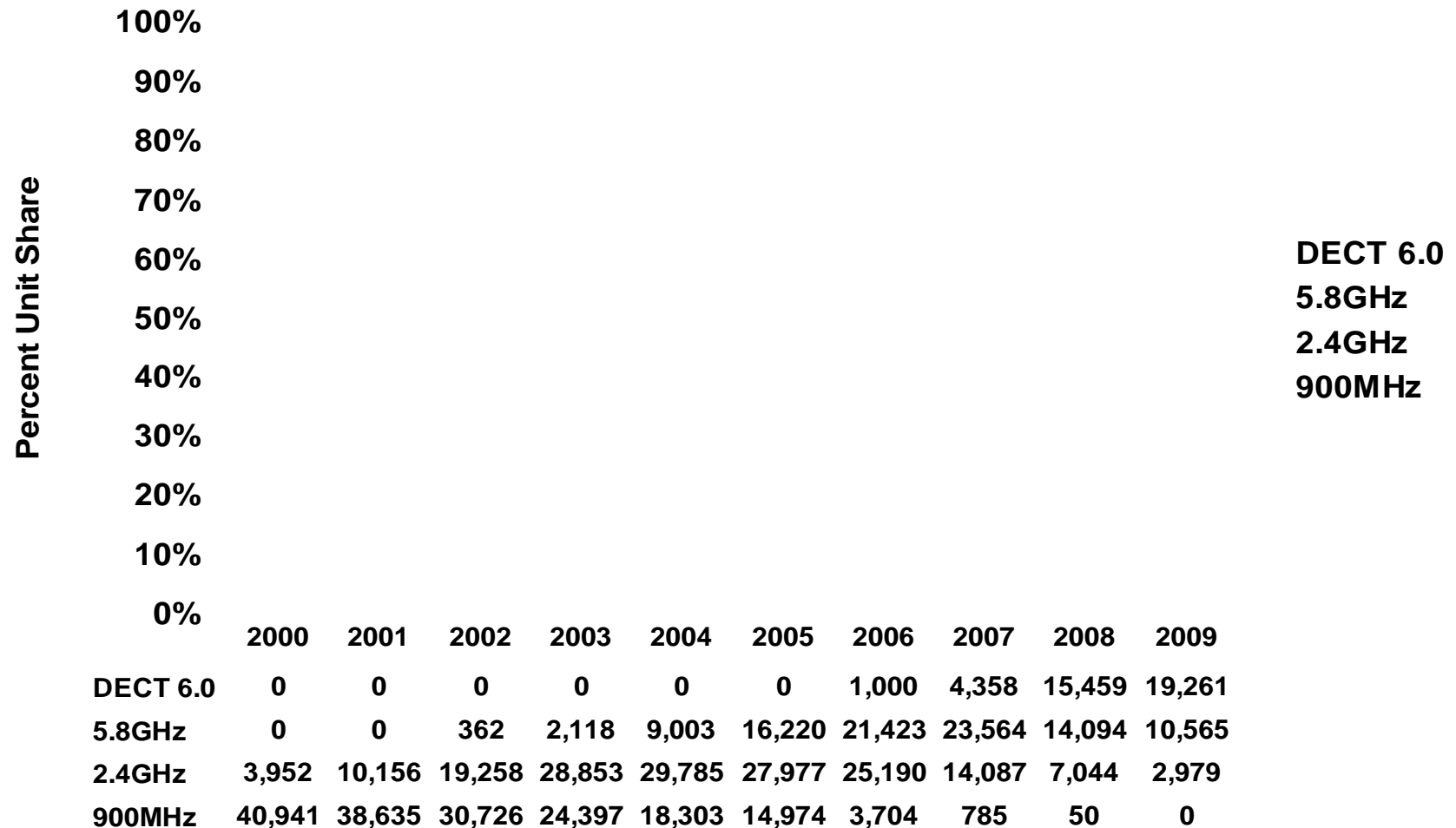
Recommended FCC Actions

- **Changes to UPCS band (1920-1930 MHz) operating rules to avoid harmful interference from H-Block (1915-1920 MHz)**
 - Two ways to allow UPCS operation in a more noisy environment:
 - Eliminate the threshold requirement associated with the least interfered-channel rule in 47 CFR 15.323(c)(5); **or**
 - Raise this threshold from the current level of 50 dB above thermal noise to 65 dB above thermal noise
- **H-Block Out of Band Emission (OOBE) levels should also be reduced to minimize interference to UPCS devices**
 - Without changes to UPCS rules, the DECT Forum recommended H-Block OOBE limit be decreased by 15 dB
 - From -13 dBm/MHz to -28 dBm/MHz
 - With adoption of it's proposed changes to UPCS rules, the DECT Forum recommends a 3 to 6 dB reduction
 - From -13 dBm/MHz to -16 to -19 dBm/MHz
- **Changes to UPCS rules to permit broadband for UPCS devices:**
 - Reduce the minimum number of channels to be monitored from 40 to 20 to permit 2.5 MHz maximum channel width
 - Change mirrors 50% reduction of UPCS band from 2004 (FCC 04-219)

Reasons for Commission Action

- **Expeditious action is needed to protect consumers**
 - As of July 2008 DECT 6.0 cordless phones reached 53% dollar share in the United States, up from 18% in Sept 2007
 - In Panasonic's own 2008 product line, 39 out of 44 models utilize DECT 6.0 technologies
- **Public Interest benefits from broadband-connected products**
 - DECT Forum's proposed changes will support new consumer broadband product categories and improve audio quality
 - DECT CAT-iq "Cordless Advanced Technology – internet and quality" will bring broadband Internet and telephony together
- **Action on the DECT Forum Petition should be in advance of modifying H-Block operating rules**
 - DECT Forum showed that proposed H-Block rules would cause harmful interference to consumers using DECT 6.0 cordless phones

Rapid Market Shift in Cordless Technologies



Source: CEA/Panasonic

Consumers Embracing DECT 6.0



Source: CEA/Panasonic